



# CONTACT 800T

## Wireless Microphone System

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### OPERATING MANUAL AND USER GUIDE



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Contact 800T

## IMPORTANT WARNINGS & SAFETY INSTRUCTIONS

1. Please read and retain these safety instructions.
2. Heed all warnings in the operating instructions and on the appliance.
3. Do not use this apparatus near water or moisture.
4. Clean only with a dry cloth.
5. Do not install near sources of heat such as radiators, heat registers, stoves or other apparatus that produce heat.
6. Refer all servicing to authorised personnel.
7. There are no user serviceable parts inside this product. Users should not attempt to service this product. Warranty nullification could result if this is attempted.
8. Servicing is required when the apparatus has been damaged in any way including: Impact damage, power cord/supply damage, liquid spillages, small objects falling into the unit or exposure to moisture. In addition please refer to authorised service personnel if the apparatus is not operating normally.
9. To completely disconnect this equipment from the AC mains disconnect the power plug from the AC receptacle.
10. To prevent fire never place the unit near any naked flame such as a candle.
11. Do not defeat the purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are there for your safety. If the plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
12. **USING AMPLIFIERS** – In order to avoid damage to drivers and other equipment, it is advisable to establish and follow a routine for powering up and powering down a sound system. With all system components connected, turn on source equipment (mixers, signal processors, record and playback



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units, etc.) BEFORE powering up amplifiers. Transient voltages from powering up source equipment can damage speakers if amplifiers are already turned on. Make sure that amplifier volumes are set to their minimum settings and power up any system amplifiers LAST. It is recommended that all system components be allowed to stabilize for several seconds before any source signals are introduced or level setting adjustments are made. Similarly, when shutting systems down, turn all amplifiers off first, before powering down any other system components.

13. CABLES – Do not use shielded or microphone cables for connection between amplifiers and speakers. Use only approved speaker cables with proper connectors.
14. RIGGING – SUSPENDING – MOUNTING – Rigging, suspending and mounting of speaker systems can expose members of the public to serious health risks and even death. UNDER NO CIRCUMSTANCES ATTEMPT TO RIG, SUSPEND OR OTHERWISE MOUNT SOUND REINFORCEMENT PRODUCTS UNLESS YOU ARE FULLY QUALIFIED AND CERTIFIED TO DO SO BY RELEVANT LOCAL, STATE AND NATIONAL AUTHORITIES. ALL RELEVANT SAFETY REGULATIONS MUST BE FOLLOWED. IF YOU ARE NOT PROPERLY QUALIFIED OR DO NOT KNOW OF PERTINENT REGULATIONS, CONSULT QUALIFIED PERSONNEL FOR ADVICE.
15. CAUTION – Professional sound reinforcement systems are capable of generating very high sound pressure levels. Take care with placement and operation to avoid exposure to excessive volume levels. Permanent hearing damage can result when operated to extreme levels.





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# WHARFEDALE PRO CONTACT 800T WIRELESS MICROPHONE SYSTEM

Thank you for selecting the Wharfedale Pro Contact 800T single channel wireless microphone system.

Before operating the system, please take time to read this instruction manual thoroughly for a complete understanding of the product features and correct operating procedures. This will ensure that you get the most from your Wharfedale Pro Contact 800T.

### System inventory

- (1) Injection moulded carrying case
- (1) Contact 800T True Diversity Receiver
- (1) Contact 800T Wireless Transmitter / Microphone
- (2) Screw on antenna assemblies
- (1) Power supply / power cord
- (2) AA batteries
- (1) Unbalanced line cable with 1/4" plugs
- (1) Rack Mount Adapter
- (1) User manual
- (1) Warranty Registration card

## PARTS NAMES AND FUNCTIONS

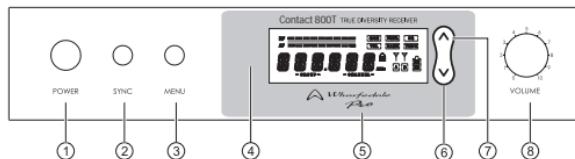
1. POWER switch
2. SYNC button: Synchronisation of transmitter & receiver  
(Automatic Channel Matching)
3. MENU button: Multiple function selection.
4. SYNC I/R receiver: Works with the microphone transmitter  
SYNC signal



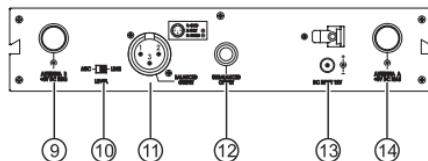


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5. LCD Display: Shows the currently selected function
6. Group Select button: Changes the group setting parameter
7. Channel Select button: Changes the channel setting parameter
8. VOLUME Control: Adjusts the output volume level



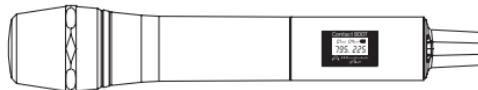
9. ANTENNA B connector
10. Output 'LEVEL' Switch: Use the "MIC" setting when the output is connected to a microphone input. Use the "LINE" setting when the output is connected to a line level input.
11. BALANCED OUTPUT XLR connector
12. UNBALANCED OUTPUT 1/4" jack
13. DC INPUT 12V power input jack
14. ANTENNA A Connector





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### TRANSMITTER / MICROPHONE (FIG.3)

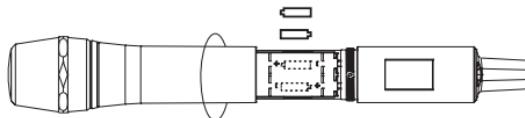


(Fig.3)

Install the provided "AA" batteries in the microphone battery compartment (Fig.4 / 5) by holding the main barrel of the microphone firmly while turning to unscrew the transmitter section (the portion with the LCD display) and slide it open to reveal the battery compartment in the middle section of the mic.

Once the batteries are installed and the battery compartment is closed and tightened, switch the microphone ON (the "1" setting on the small switch at the end of the microphone barrel) to verify correct installation. The red LED on the mic should illuminate and the LCD display on the mic will become active.

Turn the microphone off (the '0' switch setting at the end of the microphone barrel) before proceeding.



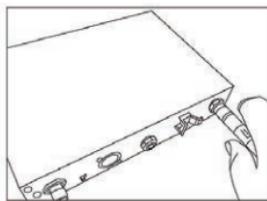
(Fig.4,5)



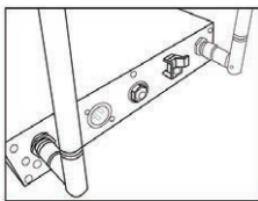
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## INSTALLATION OF THE RECEIVER

Connect the antennas into ANTENNA A connector and ANTENNA B connector at the rear of the Contact 800T Receiver as shown below. (Fig 6/A). Rotate and flip the antennas to the upward position as shown in FIG.6-B.



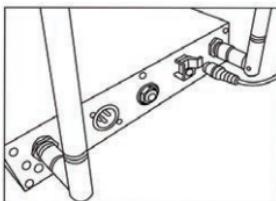
(Fig.6A)



(Fig.6B)

Connecting the power:

Connect the AC/DC adapter cable to the DC INPUT 12V socket as shown in Fig.7. Connect the other end of the cord to the AC outlet. (Caution: The specification of the adapter should be compatible with the voltage specification for the local power source voltage.).



(Fig.7)



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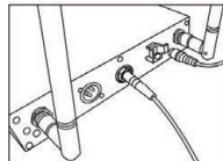
### AUDIO OUTPUT CONNECTIONS

Select the 'LINE' position of the 'LEVEL' switch when the output of the receiver is connected to the line level input of a mixer or amplifier. Select the 'MIC' position of the 'LEVEL' switch when the output of the receiver is connected to a microphone level input of a mixer. Distortion may occur if the 'LEVEL' switch is set to the wrong position. (Fig.8)

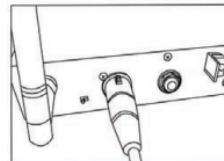
The 'BALANCED OUTPUT' should be used when the receiver is going to be connected to either a microphone or line level, balanced input of a mixer. (Fig.9)

Longer runs are less likely to cause problems with balanced cables.

The 'UNBALANCED OUTPUT' should be used when the receiver is going to be connected to a  $\frac{1}{4}$ " input jack of a mixer or an amplifier (usually line level) that uses a  $\frac{1}{4}$ " jack. Use the appropriate setting on the 'LEVEL' switch on the rear panel of the Contact 800T. Cable length for this type of connection should be limited to less than 15 feet (5 meters). (Fig.10)



(Fig.10)



(Fig.9)



(Fig.8)





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## RECEIVER SETTINGS

Verify that the 'VOLUME' control setting is at its minimum (fully counterclockwise).

With the microphone still turned OFF, Press and hold the 'POWER' button on the front panel of the receiver until the LED display lights up.

Once the display is fully illuminated, press the 'MENU' button, repeatedly, until the "G/CH" icon is highlighted. The display will read the currently selected "GROUP" number and "CHANNEL" number. These settings can be changed with the UP/DOWN buttons. It is not necessary to change these settings in order for the system to work, but they can be changed if any signal interference is experienced. See the Appendix for Group / Channel / Frequency assignments.

To change the "GROUP" setting, press the "up" button (next to the 'VOLUME' knob) repeatedly until the desired "GROUP" number is displayed. There are 9 Groups available.

To change the "CHANNEL" setting, press the "down" button (next to the VOLUME knob) repeatedly until the desired "CHANNEL" number is displayed. See the Appendix for Group/Channel correlations.

Once these settings are made, turn the microphone on and press the 'SYNC' button and the receiver will automatically synchronize with the microphone transmitter at the selected Group/Channel frequency assignment. The synchronization is successful when the "RF" level meter shows a signal indication. The "AF" meter will respond to any sounds being picked up by the microphone. Speaking into the mic should show significant audio level indications on the "AF" meter. Other indications on the receiver's display will also indicate "TX" (transmit) and one of the "A" or "B" antenna indicators will



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be highlighted showing which antenna has been automatically selected for the strongest reception.

In accordance with the operating instructions of your mixer or output device, adjust the gain controls and gradually increase the 'VOLUME' knob on the Contact 800T receiver to achieve a suitable level setting of the microphone signal.

LOCK / UNLOCK function:

Holding the 'MENU' button down for more than 3 seconds will result in the word "LOCK" being displayed on the LCD panel. This function stores the unit's settings at the currently selected configuration. When the unit is in "LOCK" mode holding the 'MENU' button for 3 seconds will toggle the function back to the "UNLOCK" mode and parameters can be changed.



## LCD DISPLAY LEGEND

Display Modes:

Pressing the 'MENU' button repeatedly will change the information displayed in the alpha- numeric section of the LCD panel showing the five display modes available:

- GROUP/CH
- FREQ (Frequency)
- SQ (Squelch)
- VOL (Mute)
- NAME (Name) will be highlighted in the display with each press of the 'MENU' button





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## FUNCTION DESCRIPTIONS

### G/CH – Group / Channel:

This allows for the selection of the Group and the Channel assignment to match the wireless microphone transmitter being used with the receiver. 9 Groups and 4 Channel selections are available. The Up button selects the Groups, the Down button selects the Channel

### FREQ – Frequency:

This displays the automatically selected frequency.

### SQ – Squelch:

This adjusts the level of “squelch” (0-99) which can minimize transmission/reception noise between the microphone transmitter and the receiver. Level is selected with the Up/Down button.

### VOL – Volume:

This mutes and un-mutes the output of the audio from the receiver when either the Up or Down button is depressed

### NAME – Name:

This allows for the custom naming of the microphone and receiver for easy identification. Use the Up/Down buttons to select an alphanumeric character. Press the 'MENU' button to scroll through the 6 available characters. The name will be set after the sixth character is entered and the 'MENU' button is pressed.

**LOCK** – This function locks system settings and the following icon is displayed when active:

(To unlock, hold the "MENU" button for 3 seconds)



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### Battery status

It is recommended that batteries be changed if the 25% display is active.

## SPECIFICATIONS

### Microphone / Transmitter Specifications

Housing Material	Aluminum Extrusion
Oscillation Mode	PLL Synthesized
Carrier Frequency Range	UHF 529-865MHz
Stability	±0.005%(-10/50 I I)
Frequency Adjustment	Automatic Channel Setting
RF Output Power	>10mW
Spurious Emissions	<55dBc
Max. Deviation Range	±68KHz
Maximum Input Level	140dB SPL
Battery	1.5V (AA)×2

### Receiver Specifications

Signal to Noise Ratio	>105dBa
Total Harmonic Distortion	<0.5% at 1KHz
Frequency Response	50Hz~18KHz ±3dB
Functional Distance	>100meters (Open area distance)
Main Frame Size	EIA standard 1/2-rack unit
Channels	Single-channel
Receiver Module	True Diversity
Oscillation Mode	PLL synthesized
Carrier Frequency Range	UHF 529-865MHz
Stability	±0.005%(-10-50 OC)
Bandwidth	13 MHz
Sensitivity	2µV (S/N>12dB 25KHz deviation )
Frequency Interval	250KHz
Available Frequencies	50
Squelch Innovative	PiloTone & NoiseLock dual-squelch circuit
Maximum Output Level	MIC LEVEL-14dBV/100Ω, LINE LEVEL-4dBV/5KΩ





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Output Connectors	XLR balanced & 1/4" / 6.3mm unbalanced phone jack.
AC Power Supply	External 90-260VAC
DC Power Supply	1A, 12-15VDC
Dimensions: (HxDxW)	1.7" x 8.6" x 6.3" / 44mm x 220mm x 160mm

Product details and specifications subject to change without notice.

## APPENDIX

### F06 Group Channel / Frequency Assignments

GROUP	CHANNEL	FREQUENCY	GROUP	CHANNEL	FREQUENCY	
1	1	740.125	3	1	740.125	
	2	741.500		2	741.225	
	3	743.375		3	742.925	
	4	744.600		4	744.325	
	5	746.325		5	745.425	
	6	748.500		6	746.875	
	7	750.050		7	748.925	
	8	751.875		8	750.175	
2	1	740.125	4	9	751.200	
	2	741.950		10	751.875	
	3	743.500		1	740.125	
	4	745.675		2	740.800	
	5	747.400		3	741.825	
	6	748.625		4	743.075	
	7	750.500		5	745.125	
	8	751.875		6	746.675	
				7	747.675	
				8	749.075	
				9	750.775	
				10	751.875	



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### F07 Group Channel / Frequency Assignments

GROUP	CHANNEL	FREQUENCY	GROUP	CHANNEL	FREQUENCY	
1	1	780.275	6	1	780.725	
	2	781.075		2	781.250	
	3	787.400		3	782.225	
	4	792.225		4	782.650	
2	1	780.525	8	5	785.350	
	2	781.325		6	785.875	
	3	787.650		7	786.925	
	4	792.475		8	787.375	
3	1	780.775	7	1	783.400	
	2	781.575		2	785.000	
	3	787.900		3	786.175	
	4	792.725		4	787.950	
4	1	781.025	8	5	788.425	
	2	781.825		6	789.500	
	3	788.150		7	790.225	
	4	792.975		8	791.275	
5	1	780.525	9	1	783.525	
	2	781.050		2	785.125	
	3	782.025		3	786.300	
	4	782.450		4	788.075	
	5	785.150		5	788.550	
	6	785.675		6	789.625	
	7	786.725		7	790.350	
	8	787.175		8	791.400	
				1	783.000	
				2	791.000	



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F08 Group Channel / Frequency Assignments

GROUP	CHANNEL	FREQUENCY	GROUP	CHANNEL	FREQUENCY
1	1	793.275	6	1	793.725
	2	794.075		2	794.250
	3	800.400		3	795.225
	4	805.225		4	795.650
2	1	793.525		5	798.350
	2	794.325		6	798.875
	3	800.650		7	799.925
	4	805.475		8	800.375
3	1	793.775	7	1	796.400
	2	794.575		2	798.000
	3	800.900		3	799.175
	4	805.725		4	800.950
4	1	794.025		5	801.425
	2	794.825		6	802.500
	3	801.150		7	803.225
	4	805.975		8	804.275
5	1	793.525	8	1	796.525
	2	794.050		2	798.125
	3	795.025		3	799.300
	4	795.450		4	801.075
	5	798.150		5	801.550
	6	798.675		6	802.625
	7	799.725		7	803.350
	8	800.175		8	804.400
			9	1	796.000
				2	804.000



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### F10 Group Channel / Frequency Assignments

GROUP	CHANNEL	FREQUENCY	GROUP	CHANNEL	FREQUENCY
1	1	863.100			
	2	863.300			
	3	863.500			
	4	863.700			
	5	863.900			
	6	864.100			
	7	864.300			
	8	864.500			
	9	864.700			
	10	864.900			

CONTACT 800T available RF frequency ranges

CODE	Frequency Range
F01	529 - 542 MHz
F02	583 - 596 MHz
F03	649 - 662 MHz
F04	683 - 696 MHz
F05	713 - 726 MHz
F06	740 - 752 MHz
F07	780 - 793 MHz
F08	793 - 806 MHz
F09	828 - 841 MHz
F10	863 - 865 MHz



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## **WHARFEDALE PRO LIMITED WARRANTY**

Wharfedale Pro Contact 800T is warranted of manufacturing or material defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorized Wharfedale Pro dealer or distributor for information.

\*Be aware that warranty details may differ from country to country. Contact your dealers or distributor for information. These terms do not infringe your statutory rights.

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